**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 1 | ("20070119829").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/21 16:10 |
| S2 | 16 | US-1058240-$.DID. OR US-2235157-$.DID. OR US-4591294-$.DID. OR US-4533814-$.DID. OR US-4429211-$.DID. OR US-5601735-$.DID. OR US-5796068-$.DID. OR US-5796069-$.DID. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/21 16:13 |
| S3 | 12 | US-1582408-$.DID. OR US-2235157-$.DID. OR US-2812227-$.DID. OR US-2229367-$.DID. OR US-7151998-$.DID. OR WO-9203249-$.DID. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/21 16:15 |
| S4 | 1 | (MSG arc welding) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/22 12:51 |
| S5 | 2 | (metal shielding gas arc welding) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 12:52 |
| S6 | 748 | (orbital welding) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 12:54 |
| S7 | 2 | (metal shield$4 gas arc weld$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:00 |
| S8 | 1 | (MSG arc weld$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:01 |

| S9 | 54 | (metal shield$4 gas) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:01 |
|---|---|---|---|---|---|---|
| S10 | 1 | S9 and (orbital weld$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:02 |
| S11 | 886 | (orbital weld$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:02 |
| S12 | 1 | S9 and S11 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:03 |
| S13 | 618 | S11 and (pipe$4 or MSG arc) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:06 |
| S14 | 618 | S11 and (pipe$4 or metal shield$4 gas) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:07 |
| S15 | 618 | S11 and (pipe$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:07 |
| S16 | 1 | S11 and (metal shield$4 gas) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:08 |

| S18 | 1 | (MSG orbital weld$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:17 |
| S19 | 0 | (metal shielding gas orbital weld$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 14:18 |
| S20 | 46 | (("4088865") or ("4001543") or ("3612808") or ("4525616") or ("5059765") or ("4591294") or ("4533814") or ("4429211") or ("4080525") or ("4001543") or ("3632959") or ("3718798") or ("3806694") or ("3193656") or ("3974356") or ("4151395")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/07/22 15:29 |
| S21 | 16 | (("4088865") or ("4001543") or ("3612808") or ("4525616") or ("5059765") or ("4591294") or ("4533814") or ("4429211") or ("4080525") or ("4001543") or ("3632959") or ("3718798") or ("3806694") or ("3193656") or ("3974356") or ("4151395")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/22 15:30 |
| S22 | 10533 | (shield$4 gas) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 15:53 |
| S23 | 86 | S22 and (orbital weld$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 15:54 |
| S24 | 80 | S23 and (pipe$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/22 15:55 |
| S25 | 6368 | (219/121.63,121.84,61,125.11,130,125PL,74,75,125R,121LC,121LQ,121LV,121LX).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 13:53 |
| S26 | 79 | S25 and (orbital weld$4) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/03 13:54 |
| S27 | 2299 | S25 and (pipe$5 or head$2) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/03 14:01 |

| S28 | 1056 | S25 and (pipe$5) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/03 14:02 |
|-----|------|-------------------|-------------------------|-----|-----|------------------|
| S29 | 77 | S26 and S27 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/03 14:02 |
| S30 | 75 | S29 and (guid$3 or device or feed or circumferential or laser beam or gas nozzle or heat$3 or MSG or metal shieding gas or wire or sensor$2 or process) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/03 14:07 |
| S31 | 6370 | (219/121.63,121.84,61,125.11,130,125PL,74,75,125R,121LC,121LQ,121LV,121LX).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/04 09:01 |
| S32 | 1075 | S31 and (shield$3 gas) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/04 09:01 |
| S33 | 166 | S31 and (metal inert gas) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/04 09:02 |
| S34 | 46 | S31 and (metal active gas) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/04 09:02 |
| S35 | 185 | S31 and (gas metal arc welding) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/08/04 09:02 |
| S36 | 186 | (mobile weld$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 09:06 |
| S37 | 2 | S32 and S36 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 09:07 |
| S38 | 1 | S35 and S36 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 09:10 |
| S40 | 1 | S34 and S36 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 09:11 |

| S41 | 939 | (Shielded Metal Arc Welding or SMAW) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 09:52 |
|-----|-----|--------------------------------------|------|-----|-----|-----------|
| S42 | 3 | S36 and S41 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 09:53 |
| S43 | 4 | (crawler weld$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/04 12:23 |
| S44 | 20 | ("2927195" \| "3084246" \| "3604612" \| "3718798" \| "3737614" \| "3806694" \| "3815807" \| "4008384" \| "4495400" \| "4664587").PN. OR ("5227601").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 15:59 |
| S45 | 3 | S44 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:03 |
| S46 | 16 | ("3892488" \| "4001543" \| "4080525" \| "4088865" \| "4367017" \| "4429211" \| "4577087" \| "4684780" \| "5147999" \| "5173584" \| "5334816").PN. OR ("5601735").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:06 |
| S47 | 16 | S46 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage or laser beam) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:07 |
| S48 | 3 | S46 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage or high$power laser or high power laser) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:08 |
| S49 | 22 | ("3555239" \| "3612808" \| "4001543" \| "4029932" \| "4080525" \| "4088865" \| "4429211" \| "4533814" \| "4577087" \| "4591294" \| "4607150" \| "5059765" \| "5179260" \| "5190204" \| "5196671" \| "5347101" \| "5601735").PN. OR ("5796068").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:09 |
| S50 | 5 | S49 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage or high$power laser or high power laser) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:09 |
| S51 | 6469 | (219/121.63,121.84,61,125.11,130,125PL,74,75,125R,121LC,121LQ,121LV,121LX).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/05/17 16:11 |
| S53 | 38527 | ("219").CLAS. | JPO | OR | OFF | 2010/05/17 16:12 |
| S54 | 4 | S53 and (mobile weld$3) | JPO | ADJ | ON | 2010/05/17 16:12 |

| S55 | 167298 | ("219").CLAS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/05/17 16:16 |
|---|---|---|---|---|---|---|
| S57 | 153 | S55 and (orbital weld$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/05/17 16:17 |
| S58 | 16 | S57 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage or high$power laser or high power laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/05/17 16:18 |
| S59 | 4 | ("4429211").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/05/17 16:29 |
| S61 | 2 | ("5932123").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/05/17 16:31 |
| S62 | 1 | S61 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage or high$power laser or high power laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/05/17 16:31 |
| S63 | 31 | ("3555239" \| "3581050" \| "3582967" \| "3689734" \| "3818176" \| "4019016" \| "4144992" \| "4163886" \| "4283617" \| "4373125" \| "4375026" \| "4734640" \| "5278390" \| "5397872" \| "5534676" \| "5571431").PN. OR ("5932123").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2010/05/17 16:35 |
| S64 | 4 | S63 and (mobile weld$3 or position sensor or carriarge or orbital position or fiber laser or fibre laser or orbital carriage or high$power laser or high power laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/05/17 16:36 |
| S66 | 1 | "08267242" | JPO | ADJ | ON | 2010/05/17 16:39 |

| S67 | 10 | US-3519157-$.DID. OR US-6281472-$.DID. OR US-5408065-$.DID. OR US-2295569-$.DID. OR US-2165344-$.DID. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2010/05/17 16:43 |

**5/18/2010 10:34:50 AM**
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